



Meade County RECC

P.O. Box 489
Brandenburg, KY 40108-0489
(270) 422-2162
Fax: (270) 422-4705

3/28/11

Mr. John Shupp
Kentucky Public Service Commission
211 Sower Blvd
P.O. Box 615
Frankfort, Ky 40601

RECEIVED

MAR 29 2011

PUBLIC SERVICE
COMMISSION

Mr. Shupp,

Enclosed is the reliability report for the calendar year of 2010. We have implemented the reporting format designed and directed by the Kentucky Public Service Commission.

If you have any questions or concerns, you may contact me at (270) 422-2162.

Sincerely,

David R. Poe, P.E.
Vice President of Operations & Engineering

Kentucky Public Service Commission

Electric Distribution Utility Annual Reliability Report

Section 1: Contact Information

UTILITY NAME	1.1	Meade County RECC
REPORT PREPARED BY	1.2	David Poe
EMAIL ADDRESS OF PREPARER	1.3	dpoe@mcrecc.com
PHONE NUMBER OF PREPARER	1.4	270-422-2162 Ext. 3149

SECTION 2: REPORT YEAR

CALENDAR YEAR OF REPORT	2.1	2010
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SECTION 3: MAJOR EVENT DAYS

Tmed	3.1	41.64
FIRST DATE USED TO DETERMINE Tmed	3.2	January 1, 2007
LAST DATE USED TO DETERMINE Tmed	3.3	December 31, 2010
NUMBER OF MED IN REPORT YEAR	3.4	4

NOTE: Per IEEE 1366 Tmed should be calculated using the daily SAIDI values for the five prior years. If five years of data are not available, then utilities should use what is available until five years are accumulated.

SECTION 4: SYSTEM RELIABILITY RESULTS

	EXCLUDING MED	
SAIDI	4.1	114.932
SAIFI	4.2	1.434
CAIDI	4.3	80.174
	INCLUDING MED (OPTIONAL)	
SAIDI	4.4	115.093
SAIFI	4.5	1.437
CAIDI	4.6	80.095

NOTES:

- 1) All duration indices (SAIDI, CAIDI) are to be reported in units of minutes.
- 2) Reports are due on the first business day of April each year.
- 3) Reports cover the calendar year ending in the December before the reports are due.
- 4) IEEE 1366 (latest version) is used to define SAIDI, SAIFI, CAIDI and Tmed.

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SECTION 5: OUTAGE CAUSE CATEGORIES

CAUSE CODE DESCRIPTION		SAIDI VALUE	CAUSE CODE DESCRIPTION		SAIFI VALUE
STORMS	5.1.1	33.467	STORMS	5.2.1	0.354
PRE-ARRANGED	5.1.2	14.264	PRE-ARRANGED	5.2.2	0.281
HARDWARE	5.1.3	11.834	UNKNOWN	5.2.3	0.185
PUBLIC/CONSUMER	5.1.4	9.167	HARDWARE	5.2.4	0.113
TREES - OUT OF RIGHT OF WAY	5.1.5	8.705	PUBLIC/CONSUMER	5.2.5	0.109
UNKNOWN	5.1.6	8.267	TREES - OUT OF RIGHT OF WAY	5.2.6	0.083
CONDUCTER	5.1.7	4.882	ANIMALS/WILDLIFE	5.2.7	0.069
ANIMAL/WILDLIFE	5.1.8	3.972	CONDUCTER	5.2.8	0.054
POWER SUPPLIER	5.1.9	0.624	POWER SUPPLIER	5.2.9	0.036
TRANSFORMER	5.1.10	0.599	TREES - IN RIGHT OF WAY	5.2.10	0.009

SECTION 6: WORST PERFORMING CIRCUITS

CIRCUIT IDENTIFIER	SAIDI VALUE	MAJOR OUTAGE CATEGORY
CLOVERPORT 1	6.1.1 438.1	CONDUCTER
BATTLETOWN 1	6.1.2 404.7	STORMS
FALLS OF ROUGH 3	6.1.3 324.9	TREES - OUT OF RIGHT OF WAY
GARRETT 2	6.1.4 315.3	PUBLIC / CONSUMER
FORDSVILLE 3	6.1.5 292.3	HARDWARE
MCDANIELS 2	6.1.6 256	STORMS
HARNED 2	6.1.7 254.4	PRE-ARRANGED
FORDSVILLE 2	6.1.8 248.7	HARDWARE
BRANDENBURG 2	6.1.9 236.4	HARDWARE
FORDSVILLE 4	6.1.10 227.5	HARDWARE

CIRCUIT IDENTIFIER	SAIFI VALUE	MAJOR OUTAGE CATEGORY
BATTLETOWN 1	6.2.1 5	UNKNOWN
IRVINGTON 3	6.2.2 4.861	STORMS
CLOVERPORT 2	6.2.3 4.587	STORMS
CLOVERPORT 1	6.2.4 4.504	PRE-ARRANGED
HARDINSBURG II 3	6.2.5 4.43	STORMS
ANDYVILLE 1	6.2.6 4.293	POWER SUPPLIER
FORDSVILLE 4	6.2.7 3.725	UNKNOWN
FORDSVILLE 3	6.2.8 3.206	HARDWARE
FALLS OF ROUGH 3	6.2.9 3.136	TREES - OUT OF RIGHT OF WAY
GARRETT 2	6.2.10 2.938	PUBLIC / CONSUMER

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Section 7: Vegetation Management Plan Review

No changes are expected in the vegetation management plan for 2011. Of the 1166 outage incidents in 2010, 46 were due to trees of which only 14 were from trees inside the documented and maintained Right-of-Way (ROW) with only 246 consumers being affected. Only one circuit was affected enough to be considered one of the worst ten feeders with its primary cause being tree; it was due to a large tree outside of the ROW falling during a windy day.

Meade County RECC (MCRECC) will be considering implementing the 'direct-cut' method in the future. The costs, effects, and member acceptance will be studied and will decide later in 2011 whether to implement the program or not.

Section 8: Utility Comments

MCRECC is satisfied with the reliability of the system in 2010. Storms were the major cause of disruption overall with pre-arranged outages being a distant second. The major reason that pre-arranged seems to be so dominant in non-storm related outages is that MCRECC is replacing 100 miles/year of very old copper conductor. In order to safely do this, lines are de-energized to string in new conductor. Considering about ¼ of the system's members were affected (per SAIFI) and each having seen an average outage of less than 15 minutes, the average affected consumer would have had an outage of less than 1 hour.

Extra-large outage numbers from the 2008 and 2009 wind and ice storms have created a huge Tmed value, permitting all and any outage results to be included and counted into the total, meaning practically no events are excluded during the year. As of the end of 2010, only 4 years of data are available to calculate the Tmed and two of those years have the devastating storms included.